CLADDING IN FOCUS: NEW CPD OFFERING

The Metal Cladding and Roofing Manufacturers Association (MCRMA) discusses its new, free online learning offering

The Metal Cladding and Roofing Manufacturers Association (MCRMA) has reinforced its commitment to promoting best practice in the roofing and cladding industry with the introduction of Continuing Professional Development (CPD) accreditation for a range of online courses offered by the Association.

The CPDs are approved by the CPD Certification Service and are based on MCRMA's downloadable Guidance Documents which have been drafted by industry experts from across the MCRMA membership. The current CPDs cover the following subjects; wind loading guidance, snow loading guidance and the installation of purlins and side rails.

Snow loading on cladding

Heavy snow falls can result in damage to roofs and their supporting structures. Good building design in terms of resistance to snow loading starts with the correct specification of the roof cladding and its supporting structure.

In this CPD, the user will learn to distinguish between types of snow load; understand the factors that affect snow loading; appreciate the recommended calculation procedures and be able to distinguish between designing to the British Standard and the Eurocode. In addition, the user will learn how to specify the correct cladding and supporting structure for a specific building and understand the importance of load paths and distribution for pitched roofs.

Snow loading is normally calculated by suitably qualified engineers using the latest codes of practice and software. However, all construction professionals need to be aware of the basic principles of snow loading to ensure that they play their part in specifying and delivering a safe building.

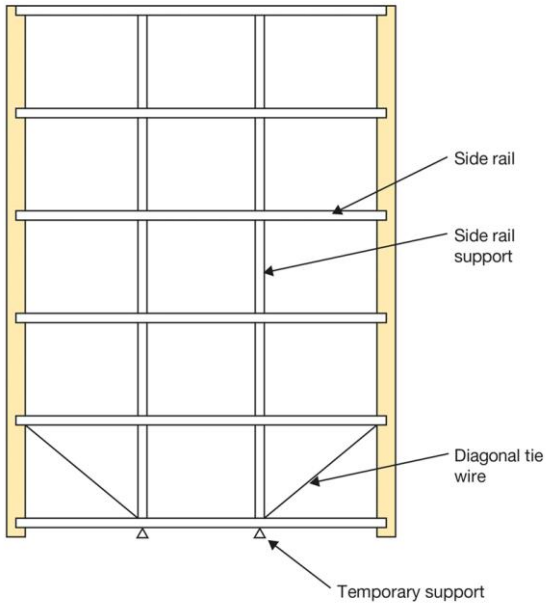
Wind loadings on roof and wall cladding

Wind loading: Buildings and their cladding in particular are expected to withstand the worst that the weather can throw at them without risk of failure or loss of function

Buildings and their cladding are expected to withstand the worst that the weather can throw at them without risk of failure or loss of function.

The CPD on wind loadings introduces the user to the key issues that need to be taken into account when calculating wind loadings on both the roof and walls of industrial and commercial buildings. The CPD explains the factors which can influence the wind loading and the zonal changes around the building envelope. Successful completion of this CPD should ensure that the user understands how wind forces work on buildings; the factors that influence wind speed; how wind loadings are calculated and understand the parts of the building that are especially vulnerable to high wind loads.

Installation of side rails and purlins



Purlins CPD: The CPD sets out an overview of the issues that need to be addressed in order to meet the performance criteria identified by the building designer

The ability of a steel framed building to perform adequately depends on good interaction between the secondary steelwork and the cladding and crucial to this interaction is the correct installation of the purlins and side rails. The CPD sets out an overview of the issues that need to be addressed in order to meet the performance criteria identified by the building designer.

On completion of this CPD, the user should have a good understanding of the primary concerns for the installation of purlins and side rails; the need for accurate secondary steelwork; the importance of cleat position and orientation; and be able to distinguish between the difference in tolerances for insulated panels and built-up systems.

Coming soon…

Two additional CPDs are currently in preparation; the first will cover serviceability states and deflection criteria and this CPD will set out an overview of the issues that need to be addressed in order to meet the performance criteria identified by the building designer. The CPD will explain the importance of setting the deflection criteria at the design stage and implementing them at the construction stage to ensure that all elements of the construction perform as expected and also that the interface, interaction and fit between components and systems meet with expectations. The CPD will also include guidance on installation tolerances for purlins and rails supporting profile metal roof sheeting and wall cladding.

The second CPD will cover mineral wool insulation installation and will examine the design factors that must be considered when specifying mineral wool insulation including the importance of the accurate calculation of the design lambda values and U-values. This CPD will set out an overview of the factors that need to be taken into account when considering the storage, handling and installation of mineral wool insulation in built-up metal roof and wall cladding systems. The CPD will also examine what site considerations, including storage, recovery to manufactured thickness and unpacking need to be considered.

MCRMA’s online CPD programme is open to anyone seeking to develop their knowledge and skills within the metal building envelope sector. Each module also offers members of professional institutions an opportunity to earn 60 minutes of credits towards their annual CPD requirement.

Following the successful completion of a CPD, a certificate can be downloaded and printed for the user's personal records. The CPDs can be taken on the MCRMA web site at mcrma.co.uk/online-cpds.

In addition to these five CPD courses, MCRMA also provides a range of detailed guidance documents on a further 24 topics and archived technical design guides covering 20 topics. All documents can be downloaded in pdf format from the MCRMA web site at mcrma.co.uk

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